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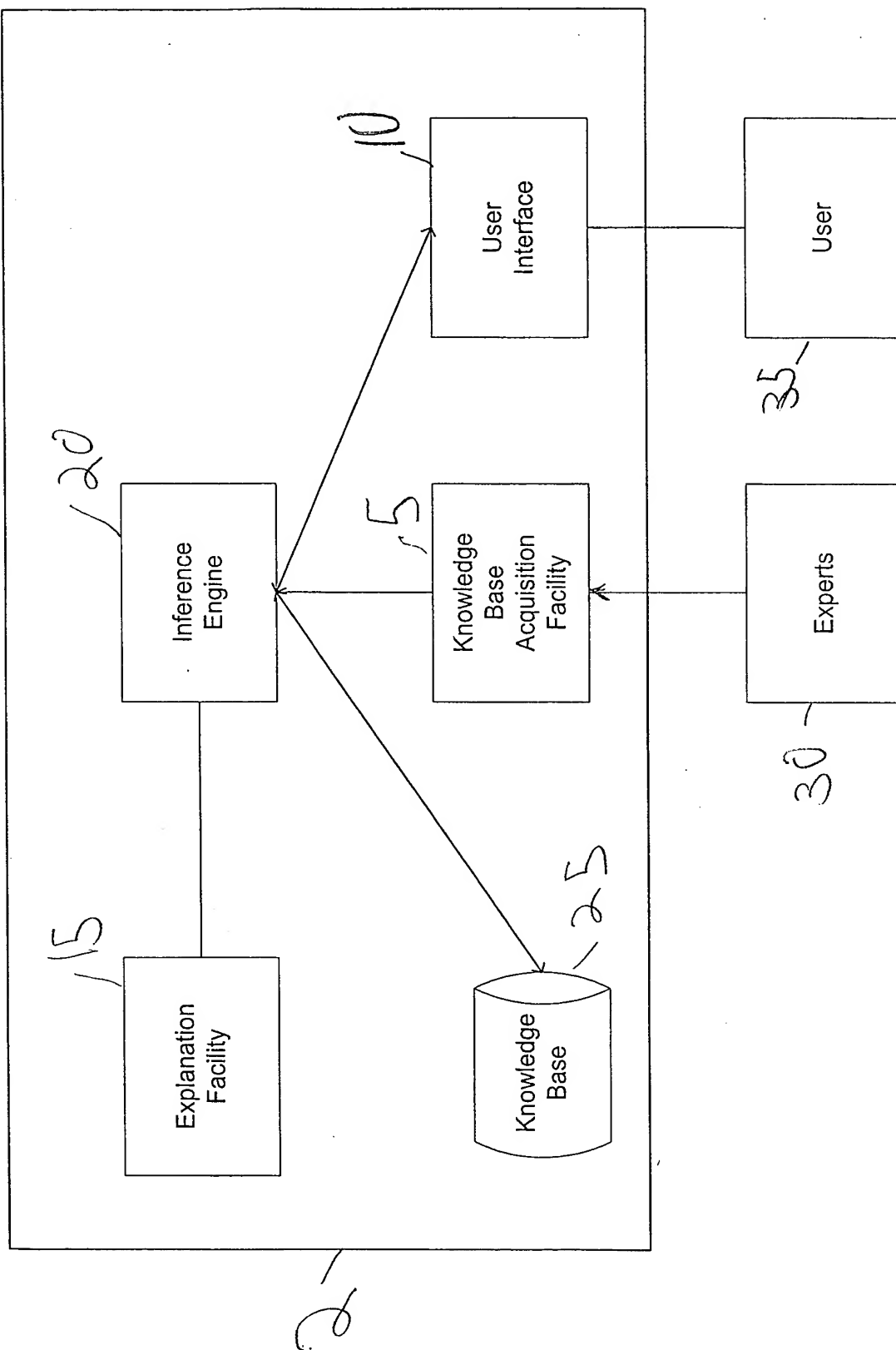
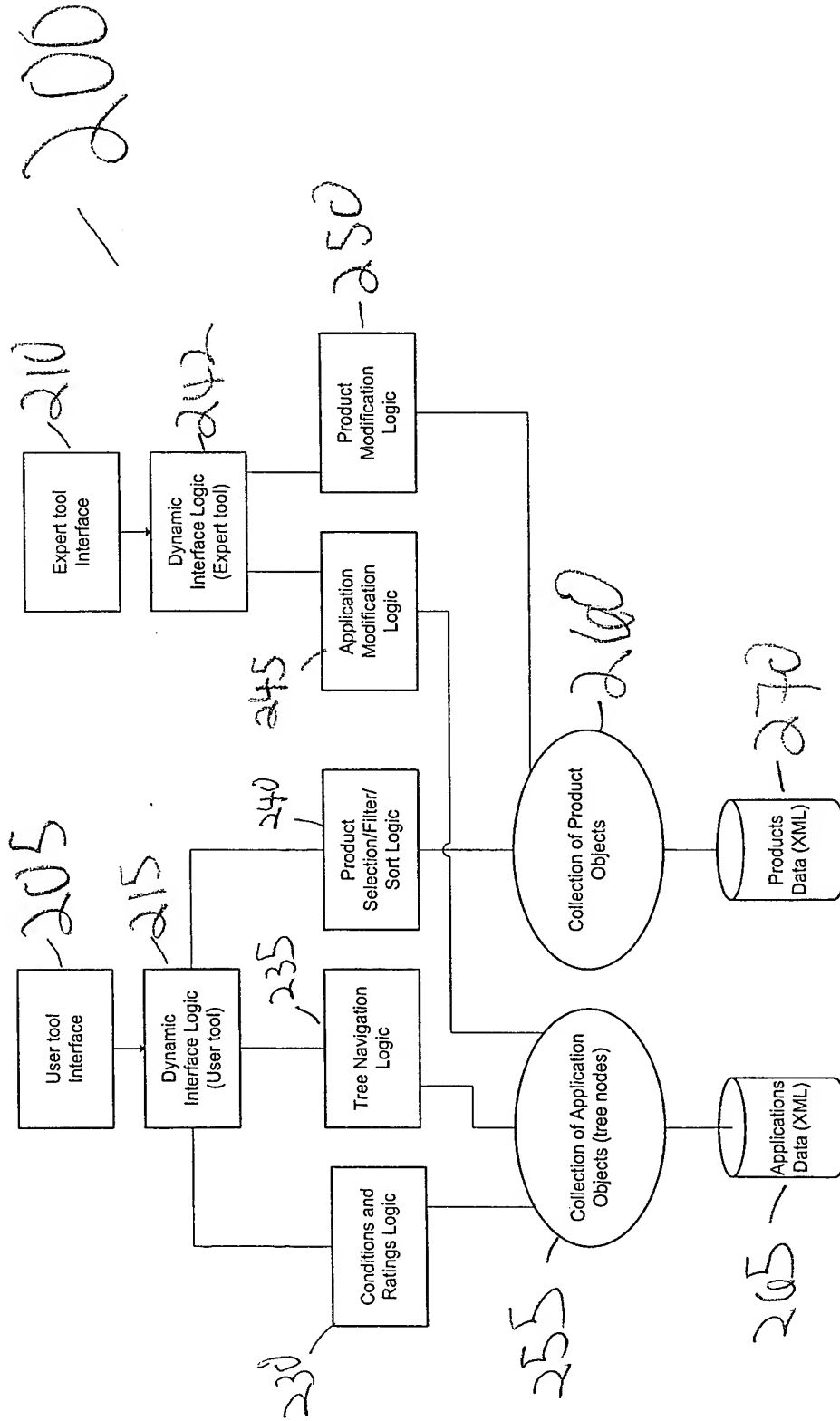
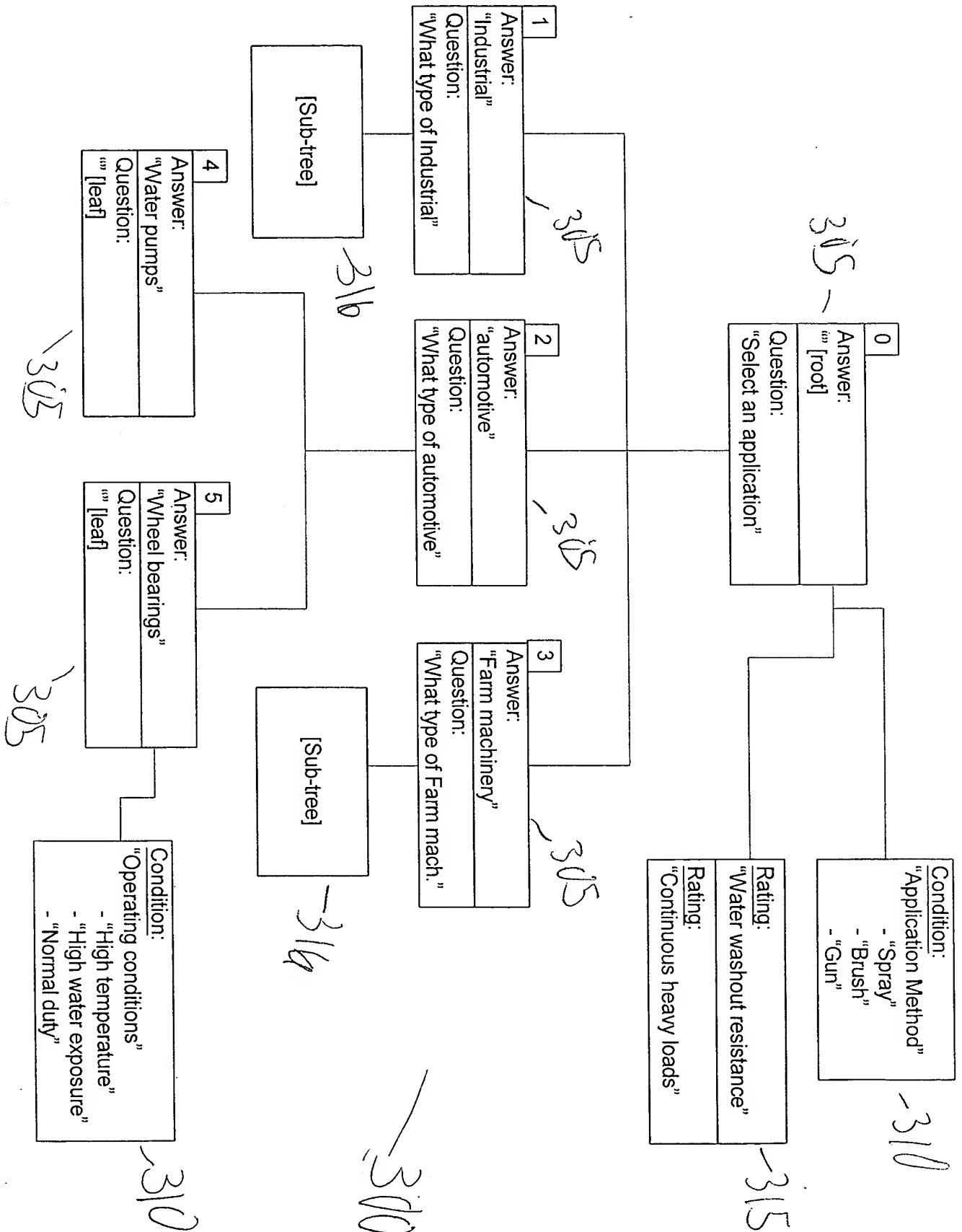


FIGURE 1

Conceptual System Diagram



Figured



FIGURE

```
<?xml version="1.0" encoding="utf-8" ?>
- <applications>
-   <application id="0">
      <answer />
      <question>Select an Application</question>
      <parent />
      - <condition cid="1">
          <prompt>Application Method</prompt>
          <choice>Spray</choice>
          <choice>Brush</choice>
          <choice>Gun</choice>
        </condition>
      - <preference pid="3">
          <prompt>Water washout resistance</prompt>
        </preference>
      - <preference pid="4">
          <prompt>Continuous heavy loads</prompt>
        </preference>
      </application>
-   <application id="1">
      <answer>Industrial</answer>
      <question>Which type of industrial?</question>
      <parent>0</parent>
    </application>
-   <application id="2">
      <answer>Automotive</answer>
      <question>What type of automotive?</question>
      <parent>0</parent>
    </application>
+   <application id="4">
-   <application id="5">
      <answer>Wheel bearings</answer>
      <question />
      <parent>2</parent>
      - <condition cid="11">
          <prompt>Operating Conditions</prompt>
          <choice>High temperature</choice>
          <choice>High water exposure</choice>
          <choice>Normal Duty</choice>
        </condition>
      </application>
-   <application id="3">
      <answer>Farm Machinery</answer>
      <question>What type of farm machinery?</question>
      <parent>0</parent>
    </application>
  </applications>
```

400

Fig. 4

SHEET 5 OF 21

<?xml version="1.0" encoding="utf-8" ?>

```
- <greases>
- <grease>
  <name>Grease Product A</name>
  <applications>
    <application>4</application>
    <application>5</application>
  </applications>
  <preferences>
    <preference pid="0">4</preference>
    <preference pid="1">9</preference>
  </preferences>
  <conditions>
    <condition cid="0">
      <Choices>
        <choice>Brush</choice>
        <choice>Gun</choice>
      </Choices>
    </condition>
    <condition cid="1">
      <Choices>
        <choice>High Temperature</choice>
      </Choices>
    </condition>
  </conditions>
</grease>
- <grease>
  <name>Grease Product B</name>
  <applications>
    <application>5</application>
  </applications>
  <preferences>
    <preference pid="0">2</preference>
    <preference pid="1">7</preference>
  </preferences>
  <conditions>
    <condition cid="0">
      <Choices>
        <choice>Spray</choice>
      </Choices>
    </condition>
    <condition cid="1">
      <Choices>
        <choice>Normal Duty</choice>
      </Choices>
    </condition>
  </conditions>
</grease>
</greases>
```

500

Fig. 5.

Expert Tool Flow Chart

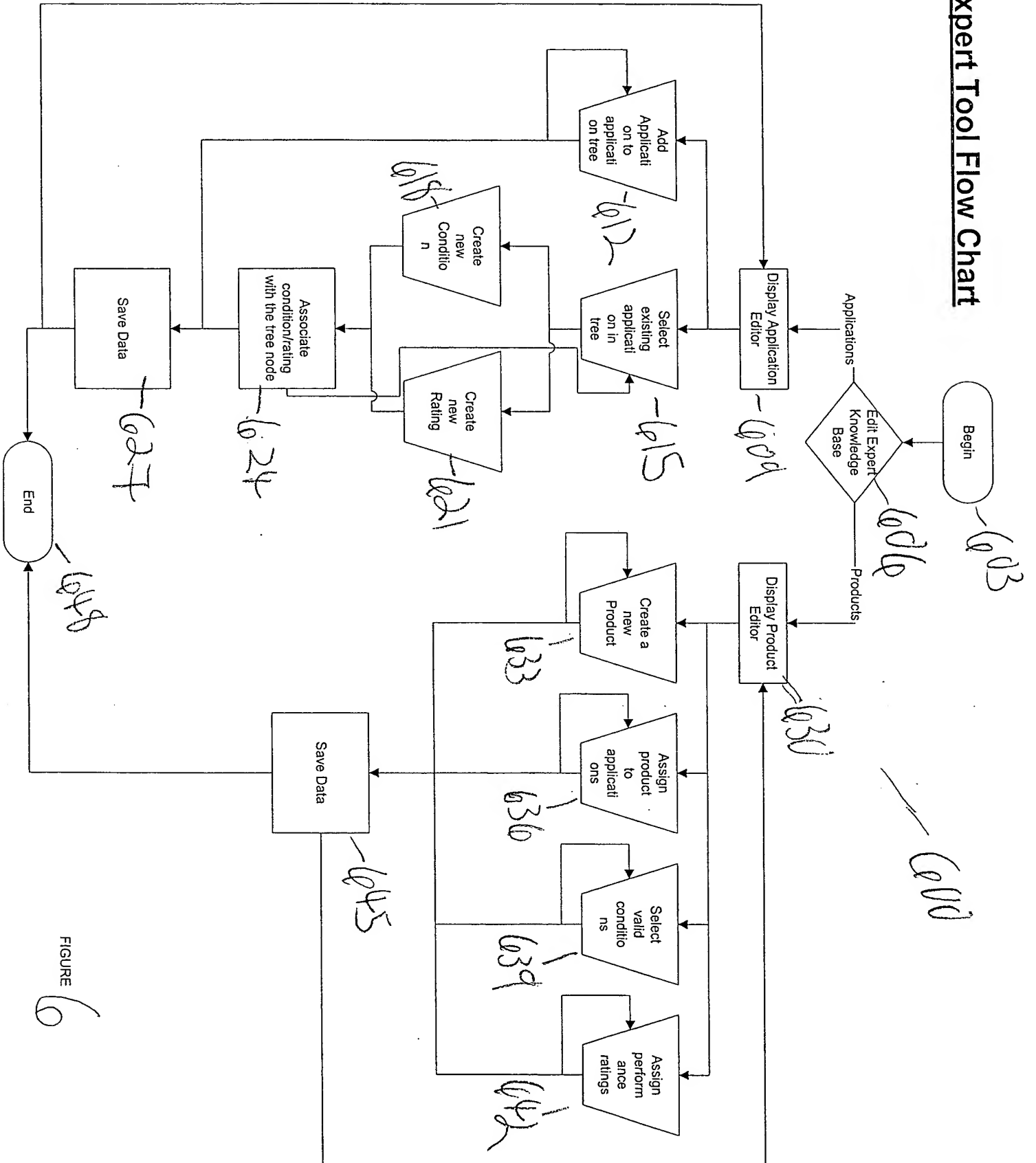
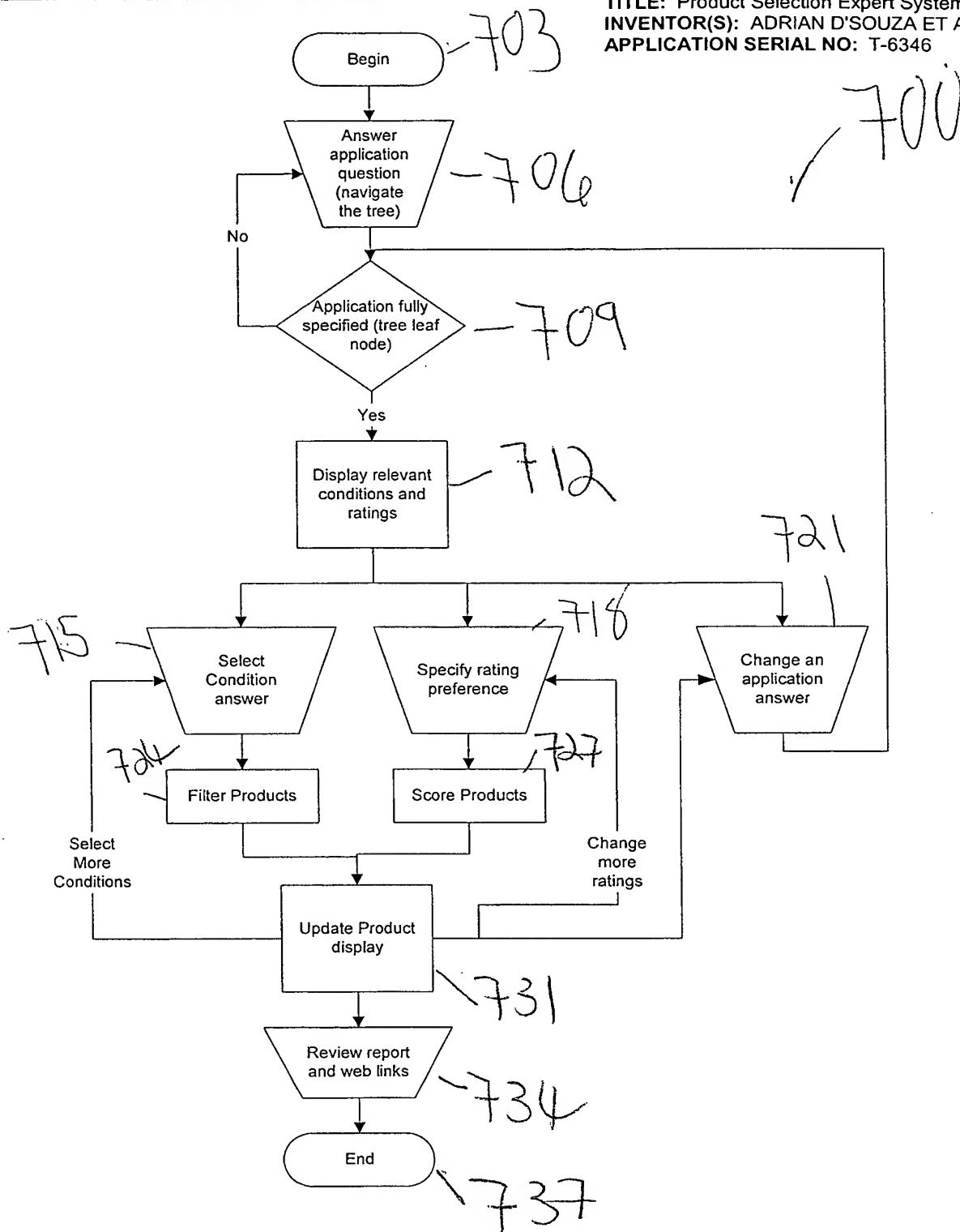


FIGURE 6

User Tool Flow Chart

APPLN. FILING DATE: March 12, 2004
TITLE: Product Selection Expert System
INVENTOR(S): ADRIAN D'SOUZA ET AL.
APPLICATION SERIAL NO: T-6346

SHEET 7 OF 21



FIGURE

7

Expert System

Step 1 A new product is added and its appropriate application is checked off in a simple check off box

860

820

File Edit Product Help

Match Product to Application Set Application Details

☒ Dura-Lub Grease EP NLGI 3
☒ FM Grease EP Aerosol
☒ FM Greases
☒ FM Greases
☒ FM Greases
☒ Mill Lubricant
☒ Moly Grease
☒ Moly Grease
☒ Moly MAX Grease
☒ Moly MAX Grease EP NLGI 2
☒ Moly MAX Grease EP NLGI 2
☒ Open Gear Grease
☒ Open Gear Grease - Aerosol
☒ Open Gear Grease NLGI
☒ Open Gear Lubricant 250 NC-HT
☒ Open Gear Lubricants, 100 NC
☒ Open Gear Lubricants, 250 NC
☒ Open Gear Lubricants, 800 NC
☒ RPM Arctic Grease
☒ RPM Automotive LC Grease EP NLGI
☒ RPM Automotive LC Grease EP NLGI
☒ RPM Heavy Duty LC Grease EP NLGI
☒ RPM Heavy Duty LC Grease EP NLGI
☒ Rykon Premium Grease EP
☒ Rykon Premium Grease No. 1364
☒ Rykon Premium Grease No. 1425
☒ Rykolac Grease EP
☒ Sil-X Grease NLGI 1
☒ Sil-X Grease SF
☒ SRI Grease NLGI 2
☒ SRI Grease OEM
☒ Super Penalube Grease
☒ Thread Sealing Compound
☒ Tool Joint Compound
☒ Ulti-Plex Grease EP NLGI 0
☒ Ulti-Plex Grease EP NLGI 1
☒ Ulti-Plex Grease EP NLGI 2
☒ Ulti-Plex HV Synthetic Grease EP
☒ Ulti-Plex Synthetic Grease EP
☒ Ultra-Duty Grease EP NLGI 0
☒ Ultra-Duty Grease EP NLGI 1
☒ Ultra-Duty Grease EP NLGI 2

Enter text for New Grease

New Product

OK Cancel

☒ Bearings
☒ Ball, roller, or needle
☒ Spherical roller bearing
☒ Conveyor belt or roll bearing
☒ Needle bearing
☒ Roller bearing
☒ Ball bearing
☒ Plain (journal) bearing
☒ Conventional grease
☒ Slides, guides, or ways
☒ Gears
☒ Open
☒ Enclosed
☒ Casing and Tubing pipe thread
☒ Flexible Couplings
☒ Gear type
☒ Chain type
☒ Steel Grid
☒ Screws
☒ Cams and cam followers
☒ Drill collars, Drill Stems
☒ Heavy-duty on-highway trucking
☒ Truck wheel bearings
☒ Water pump
☒ Truck chassis (including ball and U-joints)
☒ Kingpin or shackle
☒ Fifth wheel
☒ Passenger Car/Light Truck
☒ Alternator/Generator rebuilders
☒ Wheel bearings
☒ Water pumps - rebuilders
☒ Chassis (including ball & u-joints)

Figure 6

10

228

Figure 9

[Handwritten signature]

Step 3 - Expert assessments of ratings for each of the products or service in terms of importance to the end user are assigned by experts

File	Add Product	Help	Match Product to Application	Set Application Details
<input type="checkbox"/> Dura-Lith Grease EP NLGI 3				
<input type="checkbox"/> FM Grease EP Aerosol				
<input type="checkbox"/> FM Greases EP NLGI 0				
<input type="checkbox"/> FM Greases EP NLGI 1				
<input type="checkbox"/> FM Greases EP NLGI 2				
<input type="checkbox"/> Mil Lubricant Light				
<input type="checkbox"/> Moly Grease EP NLGI 1				
<input type="checkbox"/> Moly Grease EP NLGI 2				
<input type="checkbox"/> Moly MAX Grease EP NLGI 1				
<input type="checkbox"/> Moly MAX Grease EP NLGI 2				
<input type="checkbox"/> Open Gear Grease				
<input type="checkbox"/> Open Gear Grease - Aerosol				
<input type="checkbox"/> Open Gear Grease NG				
<input type="checkbox"/> Open Gear Lubricant 250 NC-HT				
<input type="checkbox"/> Open Gear Lubricants, 100 NC				
<input type="checkbox"/> Open Gear Lubricants, 250 NC				
<input type="checkbox"/> Open Gear Lubricants, 800 NC				
<input type="checkbox"/> RPM Arctic Grease				
<input type="checkbox"/> RPM Automotive LC Grease EP NLGI				
<input type="checkbox"/> RPM Automotive LC Grease EP NLGI				
<input type="checkbox"/> RPM Heavy Duty LC Grease EP NLGI				
<input type="checkbox"/> RPM Heavy Duty LC Grease EP NLGI				
<input type="checkbox"/> Rykon Premium Grease EP				
<input type="checkbox"/> Rykon Premium Grease No. 1364				
<input type="checkbox"/> Rykon Premium Grease No. 1426				
<input type="checkbox"/> Rykotac Grease EP				
<input type="checkbox"/> SFX Grease NLGI 1				
<input type="checkbox"/> SFX Grease SF				
<input type="checkbox"/> SRI Grease NLGI 2				
<input type="checkbox"/> SRI Grease OEM				
<input type="checkbox"/> Super Penalube Grease				
<input type="checkbox"/> Thread Sealing Compound				
<input type="checkbox"/> Tool Joint Compound				
<input type="checkbox"/> Ulti-Plex Grease EP NLGI 0				
<input type="checkbox"/> Ulti-Plex Grease EP NLGI 1				
<input type="checkbox"/> Ulti-Plex Grease EP NLGI 2				
<input type="checkbox"/> Ulti-Plex HV Synthetic Grease EP				
<input type="checkbox"/> Ulti-Plex Synthetic Grease EP				
<input type="checkbox"/> Ultra-Duty Grease EP NLGI 0				
<input type="checkbox"/> Ultra-Duty Grease EP NLGI 1				
<input type="checkbox"/> Ultra-Duty Grease EP NLGI 2				

Application	Conditions	Ratings
<input type="checkbox"/> Good Chassis Grease?		
<input type="checkbox"/> Industrial water wash resistance?	5	
<input type="checkbox"/> Saltwater rust resistance?	0	
<input type="checkbox"/> Water wash resistance?	6	
<input type="checkbox"/> Continuous heavy loads?	6	
<input type="checkbox"/> Shockload protection?	6	
<input type="checkbox"/> Low Noise - OEM Eliminator?	0	

810

Figure 10

840

801

870
Programming steps - Addine categories or subcategories is made under each category item, this lists followup questions for the end user

File Edit Help
Match Product to Application Set Application Details

☐ Cotton picker spindles
☐ Railroad
 Rail or flange
 Journal (axle) roller bearing
 Traction motor gear
☐ Industrial, Marine, or Food
 Chains
 Wire rope
☐ Bearings
 Ball roller or race
 Expand All
 Collapse
 Spherical roll
 Conveyor be
 Needle bear
 Roller bearing
 Ball bearing
 Add
 Delete
☐ Plain (journal) bearing
 Conventional grease
 Sides, guides, or ways
☐ Gears
 Open
 Enclosed
☐ Casing and Tubing pipe thread
☐ Flexible Couplings
 Gear type
 Chain type
 Steel Grid
 Screws
 Cams and cam followers
 Drill collars, Drill Stems
☐ Heavy-duty on-highway trucking
 Truck wheel bearings
 Water pump
 Truck chassis (including ball and U-joints)
 Knapin or shackle
 Fifth wheel
☐ Passenger Car/Light Truck
 Alternator/Generator/rebuilders
 Wheel bearings
 Water pumps - rebuilders
 Chassis (including ball & u-joints)
 Constant Velocity Joints
 General Purpose

Answer to previous question
Ball roller or needle
Next question to ask
Which bearing type?
Rating questions
Condition questions:
Approx. bearing diameter
Ball roller, needle rpm
Condition choices

Figure 11

850

901

101 / 120

110 — Step 1: APPLICATION

Select Application

Mobile Farm Machinery
Railroad
Industrial, Marine, or Food
Heavy-duty on-highway truck
Passenger Car/Light Truck
General Purpose
Heavy Duty Off Road

112

Step 2: CONDITIONS

Scrollbar to view all conditions

Step 3: Importance — 130

move cursor on scale of 1-10

Good Chassis Grease? _____

Industrial water rust resistance? _____

Saltwater rust resistance? _____

Water washout resistance? _____

Continuous heavy loads? _____

Shock load protection? _____

Larg. Noise: OEM El motor: brgs _____

Search the Web

Chevron/Texaco Data Sheets

SELECTED GREASES

Step5: Highlight grease, click web links above, use Grease name in CSEST search

Selected Greases

150

FIGURE 12

101

110

112

114

120

130

Step 1: APPLICATION

Select Application:

Mobile Farm Machinery
Railroad
Industrial Marine or Food
Heavy-duty on-highway truck
Passenger Car/Light Truck
General Purpose
Heavy Duty Off Road

Which category of application:

Chains
Wire rope
Bearings
Slides, guides or ways
Gears
Casing and Tubing pipe fit
Flexible Couplings

Step 2: CONDITIONS

Scrollbar to view all conditions

Step 3: Importance

move cursor on scale of 1-10

Good Chassis Grease?

Industrial water rust resistance?

Saltwater rust resistance?

Water washout resistance?

Continuous heavy loads?

Shock load protection?

Low Noise: OEM, El motor bgs

Search the Web

ChevronTexaco Data Sheets

SELECTED GREASES

Step5: Highlight grease, click web links above, use Grease name in CBEST search

Selected Greases

FIGURE 13

101

112

114

116

110

120

130

Step 1: APPLICATION

Step 2: CONDITIONS

Step 3: Importance

Select Application

Mobile Farm Machinery

Railroad

Industrial Machine or Food

Heavy-duty on-highway truck

Passenger Car/Light Truck

General Purpose

Heavy Duty, Off Road

Which category of application?

Chains

Wire rope

Bearings

Slides, guides, or ways

Gears

Casing and Tubing pipe fittings

Flexible Couplings

Which kind of bearing?

Ball, roller, or needle

Plain (journal) bearing

move cursor on scale of 1-10

Good Chassis Grease?

Industrial water rust resistance?

Saltwater rust resistance?

Water washout resistance?

Continuous heavy loads?

Shock load protection?

Low Noise - OEM/EI motor brgs

Search the Web

ChevronTexaco Data Sheets

SELECTED GREASES

Step5: Highlight grease, click web links above, use Grease name in CBEST search

Selected Greases

FIGURE 14

Step 1: APPLICATION
Select Application:
Mobile Farm Machinery
Railroad
Industrial Marine or Food
Heavy-duty on-highway truck
Passenger Car/Light Truck
General Purpose
Heavy Duty Off Road
41

Which category of application:
Chains
Wire rope
Bearings
Slides, guides, or ways
Gears
Casing and Tubing pipe th
Pneumatics
41

Which kind of bearing?
Ball roller or needle
Plain (journal) bearing

Which bearing type?
Spherical roller bearing
Conveyor belt or roll bearing
Needle bearing
Roller bearing
Ball bearing

Step 2: CONDITIONS
Scrollbar to view all conditions

Step 3: Importance
move cursor on scale of 1-10

Good Chassis Grease? _____
Industrial water rust resistance? _____
Saltwater rust resistance? _____
Water washout resistance? _____
Continuous heavy loads? _____
Shock load protection? _____
Low Noise, OEM El motor brgs? _____

Search the Web
Chevron Texaco Data Sheets
SELECTED GREASES
Step5: Highlight grease, click web links above, use Grease name in CBEST search

Selected Greases

FIGURE 15

FILE HELP

Step 1: APPLICATION

Select Application:
Mobile Farm Machinery
Railroad
Industrial Marine or Food
Heavy-duty on-highway truck
Passenger Car/Light Truck
General Purpose
Heavy Duty Off Road
Agriculture

Which category of application?
Chains
Wire rope
Bearings
Slides, guides, or ways
Gears
Casing and tubing pipe threads
Pneumatic Conduits

Which kind of bearing?
Ball, roller or needle
Plain (journal) bearing

Which bearing type?
Spherical roller bearing
Conveyor belt or roller bearing
Needle bearing
Roller bearing
Ball bearing

Step 2: CONDITIONS

Scrollbar to view all conditions

Select Application Method:
Spray Gun
Manual
Single Point auto-lubricator
Central system
Grease gun
Aerosol spray
Other, like container pumps

Moly required?
5%
3%
Less than 3%
No

Heavy loads requiring EP?
Yes
No

Food machinery application?
NSF H1: incidental food contact
NSF H2: Non food contact

Approx. bearing diameter:
Greater than 6 inches
3 to 6 inches
Less than 3 inches

Ball, roller, needle rpm:
Greater than 5000 RPM
2000 to 5000 RPM
500 to 2000 RPM
Less than 500 RPM

Step 3: Importance

move cursor on scale of 1-10

Good Chassis Grease?
Industrial water rust resistance?
Saltwater rust resistance?
Water washout resistance?
Continuous heavy loads?
Shock load protection?
Low Noise: OEM El motor brgs

Step 4: Printable Report

GO

Enter Optional Customer Name for report

Search the Web
Chevron Texaco Data Sheets

SELECTED GREASES

Steps: Highlight grease, click web links above, use Grease name in CBEST search

Selected Greases

0	Rykolac Grease EP
0	Super Permalube Grease
0	RPM Arctic Grease
0	SRI Grease NLGI 2
0	SRI Grease OEM
0	Uli-Plex Synthetic Grease EP
0	Uli-Plex HV Synthetic Grease EP
0	Moly Grease EP NLGI 1
0	Moly Grease EP NLGI 2
0	Dura-Lith Grease EP NLGI 0
0	Dura-Lith Grease EP NLGI 1
0	Dura-Lith Grease EP NLGI 2
0	Delo Grease EP NLGI 00
0	Delo Grease EP NLGI 0
0	Delo Grease EP NLGI 1
0	Delo Grease EP NLGI 2
0	Uli-Plex Grease EP NLGI 0
0	Uli-Plex Grease EP NLGI 1
0	Uli-Plex Grease EP NLGI 2
0	Ultra-Duty Grease EP NLGI 0
0	Ultra-Duty Grease EP NLGI 1
0	Ultra-Duty Grease EP NLGI 2
0	RPM Heavy Duty LC Grease EP NL
0	RPM Heavy Duty LC Grease EP NL
0	Moly MAX Grease EP NLGI 1

FIGURE 16

FILE Help

Step 1: APPLICATION

Select Application:
Mobile Farm Machinery
Railroad
Industrial Marine or Food
Heavy-duty on-highway truck
Passenger Car/Light Truck
General Purpose
Heavy-Duty Off Road
[OK]

Which category of application:
Chains
Wire rope
Bearings
Slides, guides, or ways
Gears
Casing and tubing pipe th
Breathle Couplings
[OK]

Which kind of bearing?
Ball, roller or needle
Plain (journal) bearing

Which bearing type?
Spherical roller bearing
Conveyor belt or roll bearing
Needle bearing
Roller bearing
Ball bearing

Step 2: CONDITIONS
Scrollbar to view all conditions

Select Application Method:
Spray Gun
Manual
Single Point auto-lubricator
Central system
Grease gun
Aerosol spray
Other, like container pumps

Moly required?
5%
3%
Less than 3%
No

Heavy loads requiring EP?
Yes
No

Food machinery application?
NSF H1: incidental food contact
NSF H2: Non food contact

Approx. bearing diameter:
Greater than 6 inches
3 to 6 inches
Less than 3 inches

Ball/roller, needle rpm:
Greater than 5000 RPM
2000 to 5000 RPM
500 to 2000 RPM
Less than 500 RPM

Step 3: Importance
move cursor on scale of 1-10

Good Chassis Grease? _____
Industrial water rust resistance? _____
Saltwater rust resistance? _____
Water washout resistance? _____
Continuous heavy loads? _____
Shock load protection? _____
Low Noise- OEM El motor brgs _____

Step 4: Printable Report **GO**

Enter Optional Customer Name for report: _____

Search the Web
ChevronTexaco Data Sheets

SELECTED GREASES
Step 5: Highlight grease, click web links above, use Grease name in CBEST search

Selected Greases

0	Rykolac Grease EP
0	Super Permalube Grease
0	RPM Arctic Grease
0	SRI Grease NLGI 2
0	SRI Grease OEM
0	Ultr-Plex Synthetic Grease EP
0	Moly Grease EP NLGI 1
0	Moly Grease EP NLGI 2
0	Dura-Lith Grease EP NLGI 0
0	Dura-Lith Grease EP NLGI 1
0	Delo Grease EP NLGI 00
0	Delo Grease EP NLGI 0
0	Delo Grease EP NLGI 1
0	Ultr-Plex Grease EP NLGI 0
0	Ultr-Plex Grease EP NLGI 1
0	Ultra-Duty Grease EP NLGI 0
0	Ultra-Duty Grease EP NLGI 1
0	RPM Heavy Duty LC Grease EP NL
0	Moly MAX Grease EP NLGI 1
0	Black Pearl EP Grease EP NLGI 0
0	Black Pearl Grease EP NLGI 1
0	FM Greases EP NLGI 0
0	FM Greases EP NLGI 1
0	Ryton Premium Grease EP

FIGURE 17

File Help

Step 1: APPLICATION

Select Application:
Mobile Farm Machinery
Railroad
Industrial Marine or Food
Heavy-duty on-highway truck
Passenger Car/Light Truck
General Purpose
Heavy Duty Off Road

Which category of application:
Chains
Wire rope
Bearings
Slides, guides, or ways
Gears
Casing and tubing pipe line
Flexible Conduits

Which kind of bearing?
Ball roller or needle
Plain (journal) bearing

Which bearing type?
Spherical roller bearing
Conveyor belt or roll bearing
Needle bearing
Roller bearing
Ball bearing

Step 2: CONDITIONS
Scrollbar to view all conditions

Select Application Method:
Spray Gun
Manual
Single Point auto-lubricator
Central System
Grease gun
Aerosol spray
Other, like container pumps

Moly required?
5%
3%
No

Heavy Loads requiring EP?
Yes
No

Food machinery application?
NSF H1: Incidental food contact
NSF H2: Non food contact

Approx. bearing diameter:
Greater than 6 inches
3 to 6 inches
Less than 3 inches

Ball roller, needle rpm:
Greater than 5000 RPM
2000 to 5000 RPM
500 to 2000 RPM
Less than 500 RPM

Step 3: Importance
move cursor on scale of 1-10

Good Chassis Grease? _____

Industrial water rust resistance? _____

Saltwater rust resistance? _____

Water washout resistance? _____

Continuous heavy loads? _____

Shock load protection? _____

Low Noise: OEN El motor brgs _____

Step 4: Printable Report **GO**

Enter Optional Customer Name for report _____

Search the Web
Chevron Texaco Data Sheets

SELECTED GREASES
Step 5: Highlight grease, click web links above, use Grease name in CBEST search

Selected Greases

0	Moly Grease EP NLGI 1
0	Moly Grease EP NLGI 2
0	RPM Heavy Duty LC Grease EP NL
0	Moly MAX Grease EP NLGI 1

150

FIGURE 18

Step 1: APPLICATION

Select Application:
 Mobile Farm Machinery
 Railroad
Industrial Marine or Food
 Heavy-duty on-highway truck
 Passenger Car/Light Truck
 General Purpose
 Heavy Duty Off Road

Which category of application:
 Chains
 Wire rope
Bearings
 Slides, guides, or ways
 Gears
 Casing and tubing pipe etc.
 Flexible Conduits

Which kind of bearing?
Ball, roller or needle
 Plain (journal) bearing

Which bearing type?
Spherical roller bearing
 Conveyor belt or roller bearing
 Needle bearing
 Roller bearing
 Ball bearing

Step 2: CONDITIONS
 Scrollbar to view all conditions

Select Application Method:
 Spray Gun
 Manual
Central System
 Grease gun
 Aerosol spray
 Other, like container pumps

Moly required?
 5%
 3%
Less than 3%
 No

Heavy Loads requiring EP?
 Yes
No

Food machinery application?
 NSF H1 incidental food contact
 NSF H2 Non food contact

Approx. bearing diameter:
Greater than 6 inches
 3 to 6 inches
 Less than 3 inches

Ball/roller/needle rpm:
 Greater than 5000 RPM
 2000 to 5000 RPM
 500 to 2000 RPM
Less than 500 RPM

Step 3: Importance
 move cursor on scale of 1-10

Good Chassis Grease? _____

Industrial water/rust resistance? _____

Saltwater rust resistance? _____

Water washout resistance? _____

Continuous heavy loads? _____

Shock load protection? _____

Low Noise- OEM El motor brgs _____

Step 4: Printable Report **GO**

Enter Optional Customer Name for report: _____

Search the Web
 ChevronTexaco Data Sheets

SELECTED GREASES

Step5: Highlight grease, click web links above, use Grease name in CBEST search

Select Greases

0	Moly Grease EP NLGI 1
0	Moly Grease EP NLGI 2
0	Moly MAX Grease EP NLGI 1

FIGURE 19

File Help

Step 1: APPLICATION

Select Application: Mobile Farm Machinery, Railroad, Industrial, Marine, or Food, Heavy-duty on-highway truck, Passenger Car/Light Truck, General Purpose, Heavy Duty Off Road

Which category of application? Chains, Wire rope, Bearings, Slides, guides, or ways, Gears, Casing and Tubing pipe th, Flexible Couplings

Which kind of bearing? Ball roller or needle, Plain (journal) bearing

Which bearing type? Spherical roller bearing, Conveyor belt or roller bearing, Needle bearing, Roller bearing, Ball bearing

Step 2: CONDITIONS

Scrollbar to view all conditions

Select Application Method: Spray Gun, Manual, Single Point auto-lubricator, Central system, Grease gun, Aerosol spray, Other, like container pumps

Moly required? 5%, 3%, Less than 3%, No

Heavy Loads requiring EP? Yes, No

Food machinery application? NSF H1: Incidental food contact, NSF H2: Non food contact

Approx. bearing diameter: Greater than 6 inches, 3 to 6 inches, Less than 3 inches

Ball roller, needle rpm: Greater than 5000 RPM, 2000 to 5000 RPM, 500 to 2000 RPM, Less than 500 RPM

Step 3: Importance

move cursor on scale of 1-10

Good Chassis Grease? 6
Industrial water rust resistance? 3
Saltwater rust resistance? 5
Water washout resistance? 5
Continuous heavy loads? 5
Shock load protection? 5
Low Noise - OEM B motor bgs

Step 4: Printable Report

GO

Enter Optional Customer Name for report: 142, 144, 154, 150

Search the Web: ChevronTexaco Data Sheets

SELECTED GREASES

Step 5: Highlight grease, click web links above, use Grease name in CREST search

Selected Greases

99	Moly Grease EP NLGI 1
95	Moly Grease EP NLGI 2
101	Moly MAX Grease EP NLGI 1

FIGURE 20

User full page showing all customer choices on single screen, resettable at any stage, with final scoring system for multiple products that varies – products listed in scoring table are based on user choices for application and conditions, relative scores of these products in the final table dependent on ratings ie importance to the end user

Fig. 21

150

148

154

Step 1: APPLICATION

Select Application: Nuclear Power Plant, Railroad, **Passenger Car & Light Tr**, Passenger Car & Light Tr, Hoist Fan Machinery, Heavy-duty Truck or Off, General Purpose

Which kind of application? Chain, Wire rope, Sides, guides or ways, **Rollers, guides or ways**, Gears, Flexible Couplings, Screws

Which kind of bearing? **Ball roller or needle**, Plain (journal) bearing

Which bearing type? Ball bearing, Spherical roller bearing, Conveyor belt or roller bearing, Needle bearing, **Roller bearing**

Step 2: CONDITIONS

Select Low temp operating: 11 to 40F, **20 to 0F**, 40 to -21F, Below -40F

Select the highest operating: above 350F, 301 to 350F, **231 to 300F**, 213 to 260F, 175 to 212F

Select Application Method: Spray Gun, Brush, Single Point auto-lubricator, **Central System**, Grease gun, Aerosol spray

Moisture required? 5%, 3%, **No**

Heavy loads requiring EP? Yes, **No**

Food application: NSF H1 Certification: Incident, NSF H2 Certification: Non food

Step 3: RATING

move cursor on scale of 1-10

Good Chassis Grease? 10

Industrial water rust resistance? 7

Saltwater rust resistance? 5

Water washout resistance? 8

Continuous heavy loads? 2

Shock load protection? 2

Grease noise in bearings? 10

Step 4: Printable Report

John Doe Product end user

Search the Web

Chemtron Texaco Data Sheets

SELECTED GREASES

Step 5: Highlight grease, click on web links above

Selected Greases:

132	Rykolac Grease EP
141	Super Permalube Grease
173	RPM Arctic Grease
190	SRI Grease NLGI 2
190	SRI Grease OEM
175	Uni-Plex Synthetic Grease EP
157	Uni-Plex Grease EP NLGI 0
173	Uni-Plex Grease EP NLGI 1
163	Black Pearl Grease EP NLGI 1
102	FM Greases EP NLGI 0
125	FM Greases EP NLGI 1
129	Ryton Premium Grease EP

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INVENTOR(S): ADRIAN D'SOUZA ET AL.
APPLICATION SERIAL NO: T-6346

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